

**Data Bus for a Plurality of Nodes****Claims**

1. Data bus for a plurality of nodes which are connected to one another via a star coupler, characterized in that the input signals of the star coupler are in electrical form, that the star coupler comprises a logic decision gate, to the inputs of which the outputs of the nodes are connected and to which the input signals are routed, that the output of the decision gate is connected in parallel manner to the inputs of the nodes via an electrical line, that at least one part of the nodes is connected to the star coupler via an optical transmission segment with opto-electric transducers connected on the load side or the line side, and that a signal conditioning circuit which models the output signal with regard to the pulse shape is arranged between the decision gate and the inputs of the nodes.
2. Data bus as claimed in Claim 1, characterized in that the signal conditioning circuit adapts the output signal of the decision gate with regard to the pulse shape to the pulse shape of the input signals.

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